

**ARIZONA GAME AND FISH DEPARTMENT  
HABITAT PARTNERSHIP PROGRAM  
HABITAT ENHANCEMENT AND WILDLIFE MANAGEMENT PROPOSAL**

**PROJECT INFORMATION**

<b>Project Title:</b> Graham Mountain Catchment #2 Redevelopment	<b>Project No.</b> 07-513
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<b>Region/GMU:</b> Region 5/ Unit 31	<b>HPC:</b> Safford HPC
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**Project Type:** Water Redevelopment

**Project Description:**

This project is a redevelopment of Game and Fish Catchment # 368. The catchment is located on the 10 Ranch east of Dyl Canyon. At the present time the catchment is functional, but the storage capacity is only 2,000 gallons and the apron has weather cracks and is not efficient at collecting water. The current storage will be replaced with an 18ft fiberglass tank, the cement apron will be removed and sheet metal will be used for the apron. The catchment needs to be replaced with a more cost efficient and less maintenance design. to supply water as a year round source. This project will be a complete redevelopment of an older catchment that does not provide adequate catch and storage of water.

**Wildlife Species to Benefit:** This project will benefit Mule Deer , White-tailed Deer and Javelina . The project will also benefit all species of Small and Non-Game animals.

**Possible Funding Partners:** State Land Dept. Southeastern AZ Sportsman Club

**Implementation Schedule:**  
**Beginning:** November 2008  
**Completed:** May 2009

**NEPA Compliance:** (if applicable)  
**Completed:** Yes \_\_\_\_ No X\_\_\_\_  
**Projected Completion Date:**

**PROJECT FUNDING**

**SBG Funds Requested:** \$ 20490.00

**Cost Share Funds:** \$ 12000.00

**Total Project Costs:** \$ 32490.00

**PARTICIPANT INFORMATION**

**Applicant:** Joe A. Hall  
(please print)  
**Telephone:** (928) 428-2149

**Address:** 555 N. Greasewood Road  
Tucson, Arizona

**AGFD Contact and Phone No.**  
(If applicant is not AGFD personnel)

**Coordinated with:** Ed Jarhke, Paul Puckett

**Date:** June 2007

**Applicant's signature:**

**Date:**

**SEND COMPLETED APPLICATIONS TO:**

(revised 6-05-2007)

**Game Branch  
2221 W. Greenway Rd.  
Phoenix, AZ 85023  
mdisney@azgfd.gov**

**WAS PROJECT PRESENTED TO THE LOCAL HPC?      YES   x        NO**

**HAS PROJECT BEEN SUBMITTED IN PREVIOUS YEARS? IF SO WAS IT FUNDED?**  
**No**

**NEED STATEMENT/PROBLEM ANALYSIS:**

Arizona Game and Fish water catchment #368 needs to be replaced with a cost efficient and less maintenance design water storage. The replacement will benefit wildlife by holding more stored water during peak dry periods in the Unit. The current storage capacity of #368 is 2,000 gallons. Replaced with an 18ft fiberglass tank the capacity will more than double. Annually the cement apron needs repair and resealed due to weather cracks. Without resealing, the catchments ability to catch and transfer water to the storage is not operating to its full potential. By replacing this catchment with the newer components not only will the storage capacity increase it will require less maintenance and water hauling. Talking with Paul Puckett and Ed Jarke of the Departments development branch both recommend a complete replacement. Paul Puckett is familiar with the catchment location.

The Arizona State Land Department has determined that a State Land Use Permit must be completed if project is approved and before construction begins.

**PROJECT OBJECTIVES:**

To insure a reliable year round water source for wildlife in the area. The Mule Deer population in the Unit has declined over the past several years due to habitat conditions. The location of catchment #368 is an area that has one of the highest densities in the Unit. White-tailed deer are observed more frequently utilizing the area surrounding the project site and each during the survey period Javelina are also found.

By replacing this catchment the department would be establishing a water source that would be available not only during the summer but throughout the year.

**PROJECT STRATEGIES:**

By 2008 begin construction and replacement of Catchment #368. The project will replace the current catchment system with a 5,000 gallon storage tank, a 3ft walk-in drinker and 24ft x 74ft sheet metal apron. The current barbed wire fence will be removed and replaced by a pipe-rail fence.

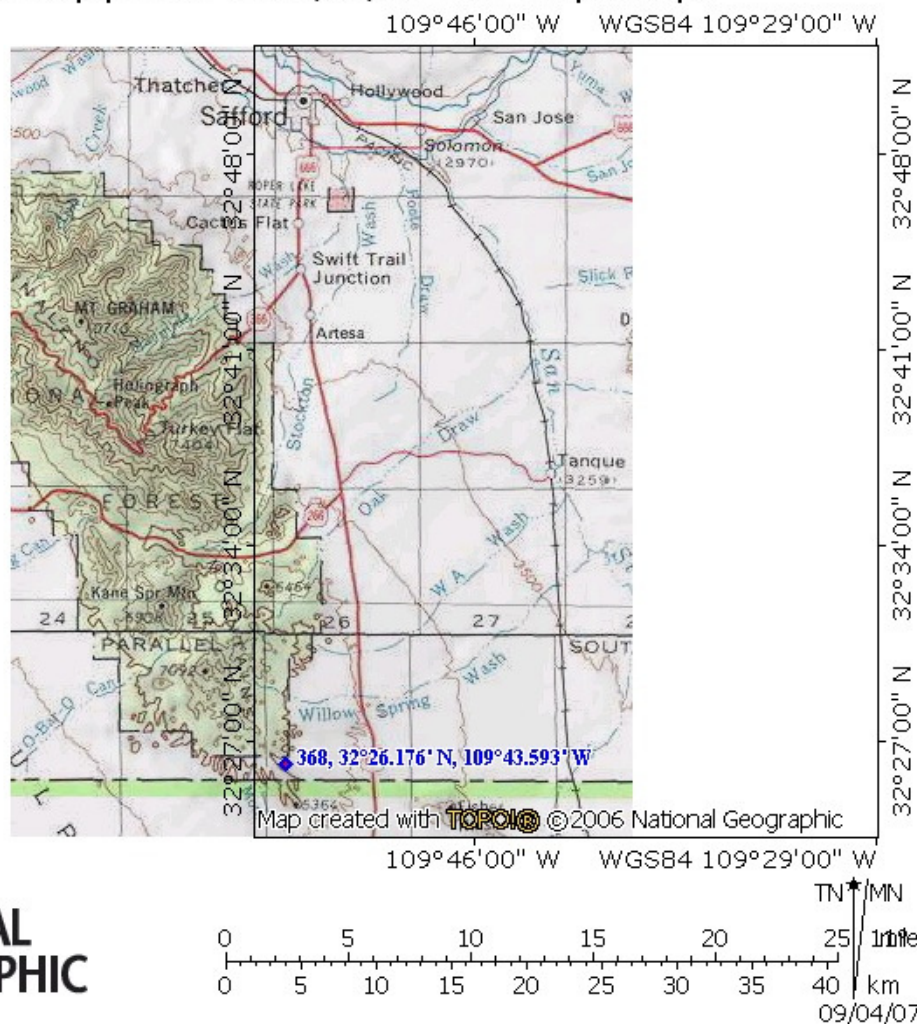
**PROJECT LOCATION:**

Catchment #368 is wildlife water in the south end of the Pinaleno Mountains. It is located approximately 25 miles south of Safford and west of SR 191.

T11S R26E NW ¼ NW ¼ Section 31

GPS location: N 32 26.176' W 109 43.593'

TOPO! map printed on 09/04/07 from "Map368.tpo"



**LAND OWNERSHIP AT PROJECT SITE (Please state specifically if PRIVATE PROPERTY and provide landowner's name):**

Arizona State Land Department

**IF PRIVATE PROPERTY, IS THERE A STEWARDSHIP AGREEMENT BETWEEN THE LANDOWNER AND THE DEPARTMENT?**

**HABITAT DESCRIPTION:**

Desert scrub

**ITEMIZED USE OF FUNDS:**

<b>18ft fiberglass tank -</b>	<b>\$7567.00</b>
<b>Fiberglass gutter -</b>	<b>\$ 578.00</b>
<b>3ft walk-in drinker -</b>	<b>\$ 2700.00</b>
<b>sheet metal apron -</b>	<b>\$ 5945.00</b>
<b>150 x150 pipe rail fence -</b>	<b>\$ 2700.00</b>
<b>Concrete and plumbing -</b>	<b>\$ 1000.00</b>
<b>Labor &amp; Expenses</b>	<b><u>\$ 12000.00</u></b>
	<b>\$ 32490.00</b>

Labor and expenses may include but not limited to;

- 1) Development Employee for 40 hours / \$30 hour plus expenses and vehicle mileage at \$.441/2 cents mile round trip.
- 2) Volunteer labor and vehicle mileage at \$.441/2 per mile round trip to project site.

All costs and funds are only estimates provided by the Departments development branch. Pricing may change depending on the start date of the project and the cost of materials

**LIST COOPERATORS AND DESCRIBE POTENTIAL PARTICIPATION:**

AZGFD Region 5 personnel, AZGFD Sector 7 personnel, Southeastern Arizona Sportsman Club, State Land Department

**PROJECT MONITORING PLAN:**

One Department Development Branch employee will oversee the project and provide technical assistance. The District Wildlife Manager will conduct annual maintenance inspections and checks and randomly check the catchment throughout the year.

**PROJECT MAINTENANCE:**

When maintenance is required the catchment will be placed on the regional priority list and will be repaired by the AZGFD.

**PROJECT COMPLETION REPORT TO BE FILED BY:**

District Wildlife Manager will file Report at Project completion

**WATER DEVELOPMENT PROJECTS (see attached worksheet):**

**TREE SHEARING (AGRA-AXE, PUSH) PROJECTS (see attached worksheet):**

## **ARIZONA GAME AND FISH DEPARTMENT WATER DEVELOPMENT WORKSHEET**

**PROJECT NAME:** Graham Mountain Catchment #2

- 1) **Is the water development listed as a priority in the most recent "Wildlife Water Development Annual Implementation Schedule?"** Yes
- 2) **Please list the Development Branch personnel and date coordinated with for this project.**  
Paul Puckett, Ed Jarhke June 2007
- 3) **What is the estimated annual inches of precipitation for the area? (mark one)**  
  2-4   4-6   6-8   8-10   10-12   x  12-14   14-16   >16
- 4) **Is there a perennial water source available to big game within four miles of this project?**  
  x   YES (please complete #5 below)        NO (skip #5 below)
- 5) **For the accessible, perennial water source nearest this project:**  
Name of water source: No name  
Type of water source (catchment, spring, dirt tank, etc.): dirt tank, windmill  
Ownership of water source: Landowner improvements  
Distance in miles from project: ½ -1 mile
- 6) **Is the target wildlife species a result of transplant efforts?**        YES   x   NO
- 7) **Please list any special land management status for the project site (i.e. Wilderness, National Park, National Monument, etc). If private land, list landowner.**
- 8) **Please provide the following information about access to the proposed site:**  
Type of access (mark one):   x   2x4 vehicles        4x4 only        foot only\*\*  
\*\*If foot access only: Distance in miles:    Approx. hiking time:  
  
-- Does access to this site require crossing private or tribal lands?        YES   x   NO  
-- Please describe any restrictions to public access:
- 9) **Please list below (or on a separate sheet) the material type and dimensions of each component proposed to be added, modified, or repaired.**  
18ft. fiberglass tank  
fiberglass gutter  
3ft. walk-in drinker  
sheet metal apron 24ft x 72ft.  
150-x150 pipe rail fence  
Concrete
- 10) **Was a site visit completed?**   X   Yes        No  
If Yes, please list personnel that attended and date.  
Paul Puckett is familiar with the site and has been there several times.